

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/530,128  
Source: PCT  
Date Processed by STIC: 05/23/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/530,128

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4      Non-ASCII     The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
  
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)             . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for **each** skipped sequence:  
                                   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   (i)     SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                                   (xi)  SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   This sequence is intentionally skipped  
                                   Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                                   <210> sequence id number  
                                   <400> sequence id number  
                                   000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                                   Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
                                   In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
  
- 11      Use of <220>     ~~Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules~~
  
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa     "**n**" can **only** represent a single nucleotide; "**Xaa**" can **only** represent a single amino acid



PCT

## RAW SEQUENCE LISTING

DATE: 05/23/2006

PATENT APPLICATION: US/10/530,128

TIME: 14:01:31

Input Set : E:\05-278 SeqList.txt

Output Set: N:\CRF4\05232006\J530128.raw

3 <110> APPLICANT: Choo, Yen  
 5 <120> TITLE OF INVENTION: Cell Culture  
 7 <130> FILE REFERENCE: P015366WO ATM  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/530,128  
 C--> 10 <141> CURRENT FILING DATE: 2005-04-04  
 12 <150> PRIOR APPLICATION NUMBER: GB0222846.8  
 13 <151> PRIOR FILING DATE: 2002-10-03  
 15 <160> NUMBER OF SEQ ID NOS: 48  
 17 <170> SOFTWARE: PatentIn version 3.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 67  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Artificial sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Label L1  
 27 <400> SEQUENCE: 1  
 29 tgcaggaatt cgcgctatgc taacgtgaag ccacgtcgcc gccgccgccg acccggccga 60  
 31 attcctg 67  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 67  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Artificial sequence  
 40 <220> FEATURE:  
 41 <223> OTHER INFORMATION: Label L2  
 43 <400> SEQUENCE: 2  
 45 tgcaggaatt cgcgctatgc tgacgtgaag tcacgtcgcc accgccgccg acccggccga 60  
 47 attcctg 67  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 67  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: Artificial sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Label L3  
 60 <400> SEQUENCE: 3  
 62 tgcaggaatt cgcgctatgc tcacgtgaag acacgtcgcc tccgccgccg acccggccga 60  
 64 attcctg 67  
 69 <210> SEQ ID NO: 4  
 70 <211> LENGTH: 67  
 71 <212> TYPE: DNA  
 72 <213> ORGANISM: Artificial sequence  
 74 <220> FEATURE:  
 75 <223> OTHER INFORMATION: Label L4  
 77 <400> SEQUENCE: 4

Does Not Comply  
 Corrected Diskette Needed  
 (pg. 1-5)

Invalid Response  
 PLS Explain the Source  
 Genetic Material.  
 See Stern II on  
 Error  
 Summary  
 Sheet.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,128

DATE: 05/23/2006

TIME: 14:01:31

Input Set : E:\05-278 SeqList.txt

Output Set: N:\CRF4\05232006\J530128.raw

79 tgcaggaatt cgcgctatgc ttacgtgaag gcacgtcgcc cccgccgccg acccggccga 60  
81 attcctg 67  
86 <210> SEQ ID NO: 5  
87 <211> LENGTH: 67  
88 <212> TYPE: DNA  
89 <213> ORGANISM: Artificial sequence  
91 <220> FEATURE:  
92 <223> OTHER INFORMATION: Label L5  
94 <400> SEQUENCE: 5  
96 tgcaggaatt cgcgctatgc taacgtgaag acacgtcgcc agcgccgccg acccggccga 60  
98 attcctg 67  
103 <210> SEQ ID NO: 6  
104 <211> LENGTH: 67  
105 <212> TYPE: DNA  
106 <213> ORGANISM: Artificial sequence  
108 <220> FEATURE:  
109 <223> OTHER INFORMATION: Label L6  
111 <400> SEQUENCE: 6  
113 tgcaggaatt cgcgctatgc tagcgtgaag atacgtcgcc aacgccgccg acccggccga 60  
115 attcctg 67  
120 <210> SEQ ID NO: 7  
121 <211> LENGTH: 67  
122 <212> TYPE: DNA  
123 <213> ORGANISM: Artificial sequence  
125 <220> FEATURE:  
126 <223> OTHER INFORMATION: Label L7  
128 <400> SEQUENCE: 7  
130 tgcaggaatt cgcgctatgc taccgtgaag aaacgtcgcc atcgccgccg acccggccga 60  
132 attcctg 67  
137 <210> SEQ ID NO: 8  
138 <211> LENGTH: 67  
139 <212> TYPE: DNA  
140 <213> ORGANISM: Artificial sequence  
142 <220> FEATURE:  
143 <223> OTHER INFORMATION: Label L8  
145 <400> SEQUENCE: 8  
146 tgcaggaatt cgcgctatgc tatcgtgaag agacgtcgcc accgccgccg acccggccga 60  
148 attcctg 67  
153 <210> SEQ ID NO: 9  
154 <211> LENGTH: 67  
155 <212> TYPE: DNA  
156 <213> ORGANISM: Artificial sequence  
158 <220> FEATURE:  
159 <223> OTHER INFORMATION: Label L9  
161 <400> SEQUENCE: 9  
163 tgcaggaatt cgcgctatgc taaagtgaag acccgtcgcc acggccgccg acccggccga 60  
165 attcctg 67  
170 <210> SEQ ID NO: 10  
171 <211> LENGTH: 67

Same  
Error

## RAW SEQUENCE LISTING

DATE: 05/23/2006

PATENT APPLICATION: US/10/530,128

TIME: 14:01:31

Input Set : E:\05-278 SeqList.txt

Output Set: N:\CRF4\05232006\J530128.raw

172 <212> TYPE: DNA  
173 <213> ORGANISM: Artificial sequence  
175 <220> FEATURE:  
176 <223> OTHER INFORMATION: Label L10  
178 <400> SEQUENCE: 10  
180 tgcaggaatt cgcgctatgc taaggtgaag actcgtcgcc acagccgccg acccggccga 60  
182 attcctg 67  
187 <210> SEQ ID NO: 11  
188 <211> LENGTH: 67  
189 <212> TYPE: DNA  
190 <213> ORGANISM: Artificial sequence  
192 <220> FEATURE:  
193 <223> OTHER INFORMATION: Label L11  
195 <400> SEQUENCE: 11  
197 tgcaggaatt cgcgctatgc taacgtgaag acacgtcgcc actgccgccg acccggccga 60  
199 attcctg 67  
204 <210> SEQ ID NO: 12  
205 <211> LENGTH: 67  
206 <212> TYPE: DNA  
207 <213> ORGANISM: Artificial sequence  
209 <220> FEATURE:  
210 <223> OTHER INFORMATION: Label L12  
212 <400> SEQUENCE: 12  
214 tgcaggaatt cgcgctatgc taatgtgaag acgcgtcgcc accgccgccg acccggccga 60  
216 attcctg 67  
221 <210> SEQ ID NO: 13  
222 <211> LENGTH: 67  
223 <212> TYPE: DNA  
224 <213> ORGANISM: Artificial sequence  
226 <220> FEATURE:  
227 <223> OTHER INFORMATION: Label L13  
229 <400> SEQUENCE: 13  
231 tgcaggaatt cgcgctatgc taacatgaag acacgtcgcc accgccgccg acccggccga 60  
233 attcctg 67  
238 <210> SEQ ID NO: 14  
239 <211> LENGTH: 67  
240 <212> TYPE: DNA  
241 <213> ORGANISM: Artificial sequence  
243 <220> FEATURE:  
244 <223> OTHER INFORMATION: Label L14  
246 <400> SEQUENCE: 14  
248 tgcaggaatt cgcgctatgc taacgtgaag acatgtcgcc accaccgccg acccggccga 60  
250 attcctg 67  
255 <210> SEQ ID NO: 15  
256 <211> LENGTH: 67  
257 <212> TYPE: DNA  
258 <213> ORGANISM: Artificial sequence  
260 <220> FEATURE:  
261 <223> OTHER INFORMATION: Label L15

Same  
Error

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,128

DATE: 05/23/2006

TIME: 14:01:31

Input Set : E:\05-278 SeqList.txt

Output Set: N:\CRF4\05232006\J530128.raw

263 <400> SEQUENCE: 15  
265 tgcaggaatt cgcgctatgc taacctgaag acaagtcgcc acctccgccg acccggccga 60  
267 attcctg 67  
272 <210> SEQ ID NO: 16  
273 <211> LENGTH: 67  
274 <212> TYPE: DNA  
275 <213> ORGANISM: Artificial sequence  
277 <220> FEATURE:  
278 <223> OTHER INFORMATION: Label L16  
280 <400> SEQUENCE: 16  
282 tgcaggaatt cgcgctatgc taacttgaag acaggtcgcc acccccgccg acccggccga 60  
284 attcctg 67  
289 <210> SEQ ID NO: 17  
290 <211> LENGTH: 67  
291 <212> TYPE: DNA  
292 <213> ORGANISM: Artificial sequence  
294 <220> FEATURE:  
295 <223> OTHER INFORMATION: Label 17  
297 <400> SEQUENCE: 17  
299 tgcaggaatt cgcgctatgc taacgagaag acacctcgcc accggcgccg acccggccga 60  
301 attcctg 67  
306 <210> SEQ ID NO: 18  
307 <211> LENGTH: 67  
308 <212> TYPE: DNA  
309 <213> ORGANISM: Artificial sequence  
311 <220> FEATURE:  
312 <223> OTHER INFORMATION: Label L18  
314 <400> SEQUENCE: 18  
316 tgcaggaatt cgcgctatgc taacgggaag acacttcgcc accgacgccg acccggccga 60  
318 attcctg 67  
323 <210> SEQ ID NO: 19  
324 <211> LENGTH: 67  
325 <212> TYPE: DNA  
326 <213> ORGANISM: Artificial sequence  
328 <220> FEATURE:  
329 <223> OTHER INFORMATION: Label L19  
331 <400> SEQUENCE: 19  
333 tgcaggaatt cgcgctatgc taacgcgaag acacatcgcc accgtcgccg acccggccga 60  
335 attcctg 67  
340 <210> SEQ ID NO: 20  
341 <211> LENGTH: 67  
342 <212> TYPE: DNA  
343 <213> ORGANISM: Artificial sequence  
345 <220> FEATURE:  
346 <223> OTHER INFORMATION: Label L20  
348 <400> SEQUENCE: 20  
350 tgcaggaatt cgcgctatgc taacgtgaag acacgtcgcc accgccgccg acccggccga 60  
352 attcctg 67  
357 <210> SEQ ID NO: 21

*Same  
Error*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,128

DATE: 05/23/2006

TIME: 14:01:31

Input Set : E:\05-278 SeqList.txt

Output Set: N:\CRF4\05232006\J530128.raw

358 <211> LENGTH: 67  
359 <212> TYPE: DNA  
360 <213> ORGANISM: Artificial sequence  
362 <220> FEATURE:  
363 <223> OTHER INFORMATION: Label 21  
365 <400> SEQUENCE: 21  
367 tgcaggaatt cgcgctatgc taacgttaaag acacgccgcc accgcggccg acccggccga 60  
369 attcctg 67  
374 <210> SEQ ID NO: 22  
375 <211> LENGTH: 67  
376 <212> TYPE: DNA  
377 <213> ORGANISM: Artificial sequence  
379 <220> FEATURE:  
380 <223> OTHER INFORMATION: Label 22  
382 <400> SEQUENCE: 22  
384 tgcaggaatt cgcgctatgc taacgtgaag acacgtcgcc accgcagccg acccggccga 60  
386 attcctg 67  
391 <210> SEQ ID NO: 23  
392 <211> LENGTH: 67  
393 <212> TYPE: DNA  
394 <213> ORGANISM: Artificial sequence  
396 <220> FEATURE:  
397 <223> OTHER INFORMATION: Label L23  
399 <400> SEQUENCE: 23  
401 tgcaggaatt cgcgctatgc taacgtcaag acacgacgcc accgctgccg acccggccga 60  
403 attcctg 67  
408 <210> SEQ ID NO: 24  
409 <211> LENGTH: 67  
410 <212> TYPE: DNA  
411 <213> ORGANISM: Artificial sequence  
413 <220> FEATURE:  
414 <223> OTHER INFORMATION: Label L24  
416 <400> SEQUENCE: 24  
418 tgcaggaatt cgcgctatgc taacgttaag acacggcgcc accgccgccg acccggccga 60  
420 attcctg 67  
425 <210> SEQ ID NO: 25  
426 <211> LENGTH: 20  
427 <212> TYPE: DNA  
428 <213> ORGANISM: Artificial sequence  
430 <220> FEATURE:  
431 <223> OTHER INFORMATION: PCR primer  
433 <400> SEQUENCE: 25  
435 tgcaggaatt cgcgctatgc 20  
440 <210> SEQ ID NO: 26  
441 <211> LENGTH: 20  
442 <212> TYPE: DNA  
443 <213> ORGANISM: Artificial sequence  
445 <220> FEATURE:  
446 <223> OTHER INFORMATION: PCR primer

*Same Error*

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/530,128

DATE: 05/23/2006

TIME: 14:01:32

Input Set : E:\05-278 SeqList.txt

Output Set: N:\CRF4\05232006\J530128.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date